

## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/603,081	06/25/2003	Heinz-Joachim Belt	037110.52388US	1889	
23911	7590 09/11/2006		EXAMINER		
0110	& MORING LLP	LANGEL, WAYNE A			
INTELLECTUAL PROPERTY GROUP P.O. BOX 14300			ART UNIT	PAPER NUMBER	
	ON, DC 20044-4300		1754		
			DATE MAIL ED: 09/11/200	DATE MAILED: 09/11/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(a)				
	Application No.	Applicant(s)				
Office Action Commence	10/603,081	BELT ET AL.				
Office Action Summary	Examiner	Art Unit				
	Wayne Langel	1754				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA:  Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period w.  Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N.  nely filed  the mailing date of this communication.  D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 16 Ju	<u>ıne 2006</u> .	•				
2a) This action is <b>FINAL</b> . 2b) ⊠ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
• •						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
<ul> <li>4)  Claim(s) 1-8 and 10-16 is/are pending in the aptending 4a) Of the above claim(s) is/are withdraw</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-5,7,8 and 10-16 is/are rejected.</li> <li>7)  Claim(s) 6 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or</li> </ul>	vn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examiner	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1). Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 6-16-06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te				

Application/Control Number: 10/603,081

Art Unit: 1754

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5, 7, 8 and 10-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pitroff et al '631 (of record). Pitroff et al '631 discloses a method of forming homogeneous compressed gas mixtures by the same process steps as recited in applicants' claims. (See the Abstract and col. 1, line 38 to col. 3, line 19.) The difference between the process disclosed by Pitroff et al '631, and that recited in applicants' claims, is that Pitroff et al '631 does not disclose that the gas mixture should comprise at least one perfluorinated or partially perfluorinated hydrocarbon or ether. However Pitroff et al '631 teaches in the Abstract and col. 1, lines 50-58 that the gas mixture should include SF<sub>2</sub> and a gas with a density at least 4 grams per liter lower. It would be prima facie obvious to provide CHF<sub>3</sub> as the gas with a density at least 4 grams per liter lower than SF<sub>2</sub> in the process of Pitroff et al '631.

Claim 6 is objected to as based on a rejected parent claim, and would be allowed if written in independent form.

The following is a statement of reasons for the indication of allowable subject matter: Pitroff et al '631 discloses a method of forming homogeneous compressed gas mixtures by the same process steps as recited in applicants' claims. (See the Abstract and col. 1, line 38 to col. 3, line 19.) Pitroff et al '631 teaches in the Abstract and col. 1, lines 50-58 that the gas mixture should include SF<sub>Z</sub> and a gas with a density at least 4

Application/Control Number: 10/603,081

Art Unit: 1754

grams per liter lower. However there is no teaching, disclosure or suggestion in Pitroff et al '631 that the gas mixture should consist of at least one perfluorinated or partially fluorinated hydrocarbon and N (i.e., should exclude SE), as required by claim 6. Nor would there be any motivation from the prior art to form a gas mixture which consists of at least one perfluorinated or partially fluorinated hydrocarbon and N2 according to the process of Pitroff et al '631.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wayne Langel whose telephone number is 571-272-1353. The examiner can normally be reached on Monday through Friday, 8 am - 3:30 pm Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/603,081

Art Unit: 1754

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Wayne Langel Primary Examiner

Art Unit 1754